OOE/EIA-0208 (83/10) **Energy Information Administration** Dist. Category UC-98 Washington, D.C. Weekly Petroleum **Status Report** March 11, 1983 mag.

The Weekly Petroleum Status Report (WPSR) provides timely information on the petroleum supply situation in the context of historical information, selected prices, and forecasts. The WPSR is intended to provide up-to-date information to the industry, the press, planners, policymakers, consumers, analysts, and State and local governments. It is published each Friday by the Energy Information Administration. The data contained in this report are based on company submissions for the week ending 7 a.m., the preceding Friday.

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### Highlights

### **Refinery Operations**

Crude oil inputs to refineries averaged 10.9 million barrels per day for the four-weeks ending March 4, 1983. Refinery capacity utilization averaged 65.1 percent during the period. During the four-weeks ending March 4, 1983, motor gasoline production averaged 5.9 million barrels a day, and distillate fuel oil production averaged 2.1 million barrels a day.

#### Stocks

On March 4, 1983, stocks of crude oil stood at 359.7 million barrels, which is about 3 percent below the level one year ago. Stocks of total motor gasoline, at 243.1 million barrels, were about 7 percent below the level one year ago. Distillate fuel oil stocks stood at 138.2 million barrels, which is about 5 percent below the level one year ago. Stocks of residual fuel oil stood at 49.0 million barrels, which is 16 percent below the level a year ago.

### **Imports**

Net imports of crude oil (including imports for the Strategic Petroleum Reserve) and petroleum products together averaged 2.4 million barrels a day for the four-weeks ending March 4, 1983, about 39 percent below their average a year ago. Gross imports of crude oil (excluding the Strategic Petroleum Reserve) averaged 1.8 million barrels a day for the four-week period ending March 4, 1983.

## **Products Supplied**

Total petroleum products supplied averaged 14.8 million barrels a day for the four-week period ending March 4, 1983, which is about 7 percent lower than during the comparable period last year. Motor gasoline was supplied at a rate of 6.0 million barrels a day, which is about 2 percent below the rate supplied a year ago. Distillate fuel oil was supplied at a rate of 2.8 million barrels a day, about 11 percent below the rate one year ago.

#### World Crude Oil Price

The estimated weighted average international price of crude oil as of March 9, 1983, remains at \$32.58 a barrel.

## **Spot Market Product Prices**

For the week ending March 4, 1983, the average spot market price of 98 octane gasoline on the Rotterdam market increased 29 cents to \$31.01 a barrel; the gasoil price increased \$1.07 to \$31.70 a barrel, and the price of residual fuel oil increased 53 cents to \$23.50 a barrel. On the New York market, the average spot market price of 89 octane regular gasoline decreased 25 cents to \$32.99 a barrel; the price of No. 2 heating oil decreased 52 cents to \$30.56 a barrel, and the residual fuel oil price increased 25 cents to \$25.25 a barrel.

	Four-Week Av For Period 03/04/83		Percent Change			
Crude Oil Supply (1) Domestic Production (2) Net Imports (Including SPR) (3) Gross Imports (Excluding SPR) (4) SPR Imports (5) Exports (6) SPR Stocks Withdrawn (+) or Added (-) (7) Other Stocks Withdrawn (+) or Added (-) (8) Products Supplied and Losses (9) Unaccounted-for Crude	E8,662 1,800 1,812 216 E228 -216 -229 E-53 891	8,680 2,633 2,777 162 306 -213 16 -66 204	-31.6 -34.8 -25.6			
(10) Crude Oil Input to Refineries	10,856	11,255	-3.5			
Other Supply (11) NGL Production (12) Other Hydrocarbon Input and Alcohol Input (13) Crude Oil Product Supplied (14) Processing Gain (15) Net Product Imports (16) Gross Product Imports (17) Product Exports (18) Product Stocks Withdrawn (+) or Added (-)	E1,636 E52 E51 516 551 1,146 E596	1,529 47 64 541 1,222 1,727 506 1,243	10.1 -20.2 -4.7 -54.9 -33.6	1982 Will U.S. Pet sufficien	e daily averages fo be shown again in roleum Balance She t 1983 data are ave reasonable compari	the WPSR et when allable to
(19) Total Product Supplied for Domestic Use	14,774	15,900	-7.1			
Products Supplied (20) Motor Gasoline (21) Naphtha-type Jet Fuel (22) Kerosene-type Jet Fuel (23) Distillate Fuel Oil (24) Residual Fuel Oil <sup>3</sup> (25) Other Oils	5,996 200 795 2,805 1,637 3,342	6,128 213 839 3,143 2,171 3,406	-2.2 -6.2 -5.2 -10.8 -24.6 -1.9			
(26) Total Products Supplied	14,774	15,900	-7.1			
Petroleum Stocks (Millions of Barrels)	03/04/83	3 (	02/25/83	03/04/82	Percent Char Previous Week	nge from Year Ago
Crude Oil (Excluding SPR) <sup>7</sup> Total Motor Gasoline Finished Motor Gasoline Blending Components Naphtha-type Jet Fuel Kerosene-type Jet Fuel Distillate Fuel Oil Residual Fuel Oil Unfinished Oils Other Oils	359.7 243.1 200.7 42.5 5.4 33.2 138.2 49.0 108.2 E146.8		369.8 242.2 199.0 43.2 5.6 32.6 142.5 47.9 108.5 E147.7	370.5 260.7 211.9 48.8 6.1 31.5 144.9 58.1 116.8 198.1	-2.7 0.4 0.9 -1.8 -3.4 1.8 -3.0 2.3 -0.2 -0.6	-2.9 -6.7 -5.3 -13.0 -10.6 5.5 -4.6 -15.6 -7.3 -25.9
Total Stocks (Excluding SPR) Crude Oil in SPR Total Stocks (Including SPR)	1,083.7 307.0 1,390.7	l	1,096.9 305.3 1,402.2	1,186.5 241.9 1,428.5	-1.2 0.5 -0.8	-8.7 26.9 -2.6

E=Estimates based on monthly data.
Includes lease condensate.
Includes lease condensate.
Net Imports "Gross Imports (line 3) + SPR Imports (line 4) - Exports (line 5).
In 1983 crude oil burned as fuel is treated as a product and a new category, crude oil product supplied, has been created. In prior years crude oil burned as fuel was treated as a transfer of crude oil to residual and distillate fuel oil product categories and was an element of the product supplied calculations of those products. Product supplied series for distillate and residual fuel oils for 1982, shown in the second column of the U.S. Petroleum Balance Sheet have been recalculated without these transfers. See Appendix D. Among the product supplied categories of the balance; crude oil product supplied is included in other oils product supplied.
Includes unfinished oils and natural gas plant liquids for processing.
Includes an estimate of minor product stock change based on monthly data.
Other oils product supplied reflects crude oil product supplied and the reduction for reclassified products.
Includes crude oil in transit to refineries.

Includes crude oil in transit to refineries.

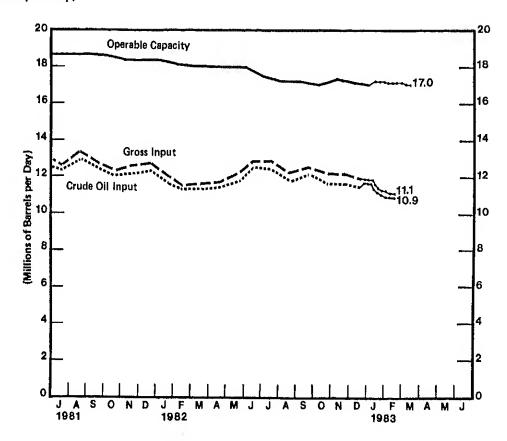
<sup>8</sup> Included are stocks of all other oils such as aviation gasoline, natural gas liquids (including ethane), kerosene, petrochemical feedstocks, special naphthas, lube oils, wax, coke, asphalt, road oil, and sources:

Sources:

 <sup>1981:</sup> EIA, "Petroleum Supply Annual."
 1982 Monthly Data: EIA, "Petroleum Supply Monthly."
 1983 Four-Week Averages: Estimates based on EIA weekly data.

Note: Due to independent rounding, individual product detail may not add to total. The percentages shown are calculated using unrounded numbers.

# Refinery Inputs and Utilization (Millions of Barrels per Day)



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981												
Crude Oil Input	13.2	12.9	12.4	12,1	12.3	12.4	12.3	12.9	12.5	10.1	100	400
Gross Inputs	13.5	13.2	12.6	12.3	12.6	12.7				12.1	12.2	12.3
Operable Capacity	18.6	18.7	18.7	18.7			12.6	13.2	12.7	12.4	12.6	12.7
Percentage Utilization1	72,5				18.7	18.7	18.7	18.7	18.6	18.4	18.4	18,4
. si sontago o tinza tion	72.0	70.8	67.7	65.7	67.2	68.1	67.4	70.6	68.4	67.0	68.2	69.2
Input	11.6	11.3	11.3	11.4	11.8	12.5	12.4	11.9	12.1	11.7	11.7	11.5
ts	12.0	11.6	11.7	11.8	12,2	12.9	12.9	12.3	12.5	12.2		
pacity	18.1	18.0	18.0	18.0	18,0	17.6					12.2	11.9
Itilization <sup>1</sup>	66.3						17.1	17.1	17.0	17.2	17.1	17.0
/(mzation)	00.3	64.6	64.9	65.5	68.0	73.6	75.2	71.6	73.9	70.8	71.1	70.0
er Four-Week Pe	riod Endir	ng:										
	1/7	1/1/	1/91	1/28	2/4	2/11	2/18	2/25	3/4			
				,	11.1	11.0	10.9	10.9	10.9			<del></del>
				į.	11.4	11.2	11.2	11.1	11.1			
				<b>!</b>	E17.1	E17.1	E17.1	E17.0	E17.0			
					00.0				-17.0			

66.6

65.7

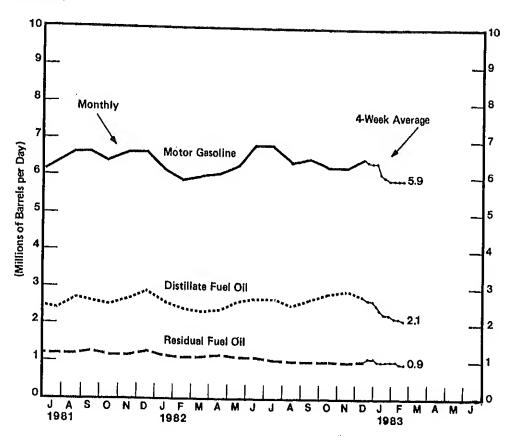
sary. Percenteges are calculated using unrounded numbers. Supply Monthly,"

65.3

65.2

65.1

# U. S. Refinery Production by Product<sup>1</sup> (Millions of Barrels per Day)



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981					<del></del>						·····	
Motor Gasoline	6.7	6,3	6,2	6.1	6,1	6.2	6.4	6,6	6.6	C 4	0.0	
Jet Fuel	1.0	0.9	1.0	1,0	1,0	1.0	1.0		6.6	6.4	6.6	6.6
Distillate Fuel Oil	3.0	2.8	2.5	2.4	2.5	2.5	2.4	1.0	0.9	0.9	1.0	0.9
Residual Fuel Oil	1.6	1.6	1.4	1.3	1.2	1.2	1.2	2.7 1.2	2.6 1.3	2.5 1.2	2.7 1.2	2.9 1.3
1982												
Motor Gasoline	6.2	5.9	6.0	6.1	6.3	6.8	6.0	0.4				
Jet Fuel	0.9	1.0	1.1	1.0	0.9	0.9	6.8	6.4	6.5	6.3	6.3	6.5
Distillate Fuel Oil	2.6	2.4	2.3	2.4	2.6		1.0	1.0	1.0	1.0	1.0	0.9
Residual Fuel Oil	1.2	1.1	1.1	1,2	1.1	2.7	2.7	2.5	2.7	2.8	2.9	2.7
		111	1,,,	1,4	1.1	1.1	1.0	1.0	1.0	1.0		
Average for Four-W	leek Per	iod Endin	ıa:									
1983	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4			
Motor Gasoline	6.4	6.4	6.4	6.1	6.0	FΩ	F 0	- r o		<del></del>		
Jet Fuel	1.0	1.0	1.0	6.1	6.0	5.9	5.9	5.9	5.9			
Distillate Fuel Oil	2.6	2.6	2.5	1.0 2.4	1.0	1.0	1.0	1.0	1.0			
Residual Fuel Oil	1.1	1.1	1.0	1.0	2.3	2.3	2.2	2.2	2.1			
	1.1	111	1,0	1.0	1.0	1.0	1.0	0.9	0.9			

1 Production statistics represent not production (i.e., refinery output minus refinery input).

Source: e Monthly Data: 1981, EIA, "Petrolaum Supply Annual," 1982, EIA, "Petrolaum Supply Monthly."

• Four-Week Averages: Estimates based on EIA weekly data.

# Stocks of Crude Oil and Petroleum Products, U.S. Totals (Millions of Barrels)

Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	\$ep	Oct	Nov	Dec
1981					400.7	2047	385.9	362.0	356.0	364.0	366.0	363,5
Crude Oil 2	374.0	378.2	393.0	397.5	393.7	384.7	227.7	233.3	237.1	236,1	248.4	253.0
Motor Gasoline	276.1	284.0	285.0	272.1	258.3	241.6 194.0	185.7	188.6	190.7	190.5	200.6	203.4
Finished Gasoline	226.3	229.6	232,1	223.2	212.6 45.7	47.6	42,0	44.7	46.4	45,6	47.8	49.5
Blending Components	49.8	54.4	52.9	48.9 40.4	44.5	44.9	44.8	44.7	43.1	42.7	42.0	41.1
Jet Fuel	39.5 179.4	38,6 172,5	39.0 164.3	164.6	171,8	179.9	186.3	200.2	207.3	201.2	200.1	191.5
Distillate Fuel Residual Fuel	82.1	77.9	74.8	72,9	78.1	69.4	69.3	74,9	80.2	79,9	81.4	78.0
Unfinished Oils	121.5	122.3	126.2	126.5	126.3	126.1	126.1	124.5	118.4	119.5	116.4	111.3
Other Oils	202.7	199.1	198,1	206.5	208.5	220.5	225.4	232.8	234.6	226,7	224.6	214.9
Total Stocks (Excl. SPR)	1,275.3	1,272.5	1,280.3	1,280.5	1,288.3	1,267.1	1,265.4	1,272.5	1,278,7	1,270.0	1,278.9	1,253.3 230,3
Crude Oll In SPR	112.5	116.1	120.9	134.2	150.1	163.1	173.1	184.7	199.2	214.8	222.5	1,483.6
Total Stocks (Incl. SPR)	1,387.8	1,388.5	1,401.2	1,414.8	1,438.3	1,430.2	1,438.5	1,457.2	1.476.0	1,484.8	1,501.5	1,405.0
1982										050.7	250.0	347.7
Crude Oil <sup>2</sup>	370.9	371.0	365.7	355.5	348.5	342.8	344.6	351.8	339,9	350.7	356.0	235.3
Motor Gasoline	262.1	262.1	247.9	222.8	214.9	219.7	226.0	226.0	233.8	234.3	230.0 189.3	194.4
Finished Gasoline	214.1	213.3	198.8	179,1	173.7	177.8	182.9	184.8	191,3	192,1 42,3	40.7	40.8
Blanding Components	47.9	48.8	49.1	43.3	41.2	41.9	43.1	41.1	42.5 39.7	40.9	40.6	38.8
Jet Fuel	37.2	37.0	42.5	44.1	41.8	40.1	39.8	40.8 158.9	161,2	170.2	185.8	178.6
Distillate Fuel	166.0	146.7	127.7	108.8	114.5	124.5 60.5	148.1 59.0	52.8	61.8	63.6	66.4	66.2
Residual Fuel Oil	68.2	58.1	57.3	53.6	59.1	117.5	117.8	116.0	117.B	113.3	111.7	105.3
Unfinished Oils	116.7	116,9	115.8 195.4	118.9 190,5	117.9 191.7	192.9	191.6	187.6	182.5	176.1	174.9	165.2
Other Oils Total Stocks (Excl. SPR)	204.6 1,225.6	198.4 1,190.2	1,152.4	1,094.3	1.088.4	1,098,1	1.126.8	1,133.8	1,136.6	1,149,1	1,165.2	1,135.1
Crude Oil in SPR	235,3	241.2	248.5	255.5	261.0	264.1	267.2	273.6	277.9	284.6	290,0	293.8
Total Stocks (Incl. SPR)	1,460.9	1,431,4	1,400.9	1,349.9	1,349.4	1,362.3	1,393.9	1,407.4	1,414.5	1,433.7	1,455.2	1,428.9
Week Ending:	4 5		4/04	1/28	2/4	2/11	2/18	2/25	3/4			
1963	1/7	1/14	1/21	1/28	2/4							
Crude Oll <sup>2</sup>	349.2	361.5 242.6	356.7 242.8	360.1 242.9	353.3 242.7	359.6 243.6	362.9 243.8	369.8 242.2	359.7 243.1			
Motor Gasoline Finished Gasoline	240.9 201.4	202.8	202.7	202.2	200.8	201.0	200.6	199.0	200.7			
Blanding Components	39.5	39.8	40.0	40.7	41.9	42.5	43.2	43.2	42.5			
Jet Fuel	37.4	38.2	37.3	38.3	38.6	37.7	37.9	38.2	38.6			
Distillate Fuel Oil	117.8	175.1	170.7	162.9	157.9	150.8	146.1	142.5	138,2			
Residual Fuel Oil	66.1	83.6	62.1	55.3	56.8	54.5	52,0	47.9	49.0			
Unfinished Oils	104,2	105.9	108.4	107.9	107.7	110.7	110.1	108,5	108.2			
Other Oils3	E159.8	E157.3	E154.7	E153.7	E151.5	E149.7	E147.8	E147.7	E146.B			
Total Stocks (Excl. SPR)	1,135.4	1,144.1	1,132,7	1,121.1	1,108.5	1,108.6	1,100.6	1,096.9	1,083.7			
Crude Oil in SPR	294.B	295.4	296,7	298.4	300.9	302.0	303.7	305.3	307.0			
Total Stocks (Incl. SPR)	1,430.2	1,439.6	1,429,3	1,419.5	1,409.4	1,408.5	1,404.3	1,402.2	1.390.7			

E=Estimated. See definition of "Stock Change (Refined Products)" for explanation of other oils methodology.

1 Product stocks include those stocks held at refineries, in pipelines, and at major bulk terminals. Stocks held at natural gas processing plants are included in "Other Oils" and in totals. All stocks levels are as of the end of the period.

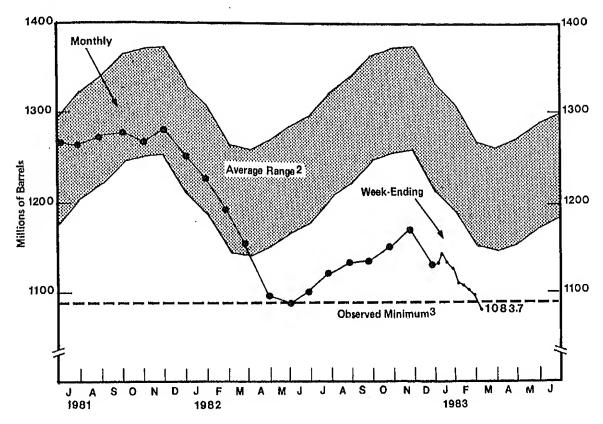
2 Crude oil stocks include those stocks held at refineries, in pipelines, in lease tanks, and in trensit to refineries, and do not include those held in the Strategic Petroleum Reserve.

3 Weekly totals for stocks of other oils are estimated using monthly data. Beginning with the WPSR issue of Jenuary 14, kerosene has been edded to stocks of other oils. Other oils include kerosene, aviation gasoline, natural gas liquids including athane, petrochemical feedstocks, special nephthes, lube oil, wax, coke, asphalt, road oil, and miscellaneous oils.

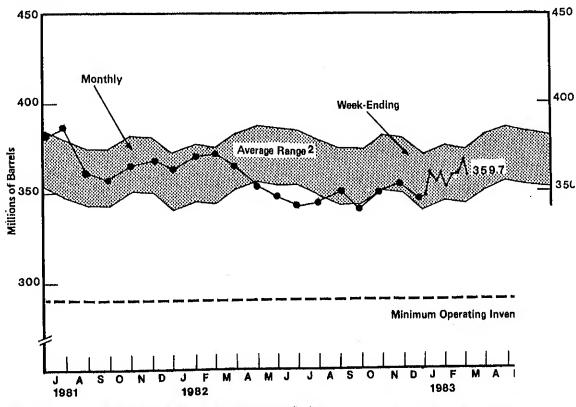
Suppose a Monthly Data: 1981 EIA (Pearslaum Supplies Aspect 1990)

Sources • Monthly Data: 1981, EIA, "Petroleum Supply Annuel," 1982, EIA, "Petroleum Supply Monthly."
• Week-Ending Stocks: Estimates based on EIA weekly data.

# Stocks of Crude Oil and Petroleum Products, U.S. Total (Millions of Barrels)



Stocks of Crude Oil, U.S. Total (Millions of Barrels)



1 Excludes stocks held in the Strategic Petroleum Reserve and includes crude oil in transit to refineries.
2 Average level width of average range, and observed minimum are based on three years of monthly date: July 1978—June 1982. The seasonal pattern is based data; January 1975—December 1981. See Appendix B for further explanation.
2 The observed minimum for total stocks in the last three-year period July 1979—June 1982, was 1088,4 million barrels. It occured in May 1982. See Append 4 The National Petroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they do to be 290 million barrels, See Appendix B for further explanation.

Source: • Ranges and Seasonal Patterns: 1975—1980, EIA, "Petroleum Stetement, Annual (Final Summery)," 1981, EIA, "Petroleum Supply Annual," • Monthly Date: 1981, EIA, "Petroleum Supply Annual," • Week-Ending Stocks: Estimates based on EIA weekly date.

## Stocks of Motor Gasoline by Petroleum Administration for Defense District (Millions of Barrels)

Year/District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981	2		***************************************	······································		• • • •						<del></del>
Finished Gasoline	226.3	229.6	232.1	223.2	212.6	194.0	185.7	188.6	190.7	190.5	200.6	203.4
Blending Components	49.8	54.4	52.9	48.9	45.7	47.6	42.0	44.7	46.4	45.6	47.8	49.5
Total Gasoline <sup>1</sup>	276.1	284.0	285,0	272,1	258.3	241.6	227.7	233.3	237.1	236.1	248.4	253.0
East Coast (PAD 1)	71.7	74.2	79,5	77.9	73.1	69.5	62.7	64.3	69.6	69.6	69.7	69.5
Midwest (PAD 2)	86.0	90.4	89.7	84.2	80.1	72.4	65.9	66.7	65.3	66.0	69.2	72.6
Gulf Coast (PAD 3)	77.2	79.6	78.5	76.2	72.2	65.9	64.0	68.6	68.5	65.0	70.6	69.5
Rocky Mountain (PAD 4)	9.7	10.3	10.2	9.4	8.6	7.4	6.5	6.0	5.8	6.3	7.7	8.5
West Coast (PAD 5)	31.5	29.5	26.9	24.4	24.3	26.3	28.6	27.8	27.9	29.2	31.2	32.9
1982												
Finished Gasoline	214.1	213.3	198.8	179.1	173.7	177.8	100.0	1040	101.0	400.4	4000	
Blending Components	47.9	48.8	49.1	43.3	41.2	41.9	182.9	184.8	191.3	192.1	189.3	194.4
Total Gasoline <sup>1</sup>	262.1	262.1	247.9	222.8	214.9		43.1	41.1	42.5	42.3	40.7	40.9
East Coast (PAD 1)	71.7	69.6	67.1	61.7	63.6	219.7	226.8	226.0	233.8	234.3	230.0	235.3
Midwest (PAD 2)	78,6	79.1	74.8	63.2	56.8	66.0 56.6	63.1	62.4	63.5	63.5	66.1	67.5
Gulf Coast (PAD 3)	70.2	69.2	68.0	63.4	63.6	65.0	62.6	65.8	69.5	67.0	64.0	65.2
Rocky Mountain (PAD 4)	9.6	9.9	10.1	8.9	7.7	6.5	66.1	64.4	67.4	69.8	65.5	66.2
West Coast (PAD 5)	32.0	34.3	27.8	25.5	23,3	25,7	5.8 28.4	5.5 27.7	5.7 27.7	6.4 27.6	7.1 27.2	8.5 27.9
Week Ending:												27.0
1983	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4			
Finished Gasoline	201,4	202.8	202.7	202.2	200.8	201.0	200.6	199.0	200.7			
Blending Components	39,5	39.8	40.0	40.7	41.9	42.5	43.2	43.2	42.5			
Total Gasoline1	240.9	242.6	242.8	242.9	242.7	243.6	243.8	242.2	243.1			
East Coast (PAD 1)	67.3	66.7	67.4	68.2	67.2	67.8	65.3	64.5	63.8			
Midwest (PAD 2)	71.9	73.3	73.7	76.5	75.2	76.0	77.1	76.5	77.7			
Gulf Coast (PAD 3)	64.9	66,3	66.1	62.2	63.9	63.0	63.8	63.9	64.6			
Rocky Mountain (PAD 4)	8.8	8.6	8.7	9.3	9.8							
West Coast (PAD 5)	28.0	27.8	26.8	26.7								
West Coast (PAD 5)					9.8 26.7	9.4 27.3	9.5 28.1	9.2 28.1	9.3 27.7			

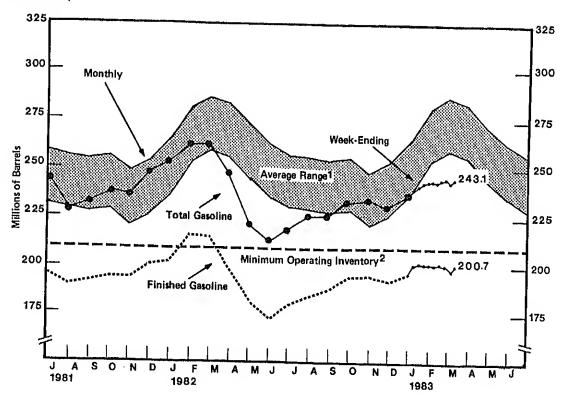
<sup>1</sup> PAD district may not add to total due to independent rounding.

Source: 

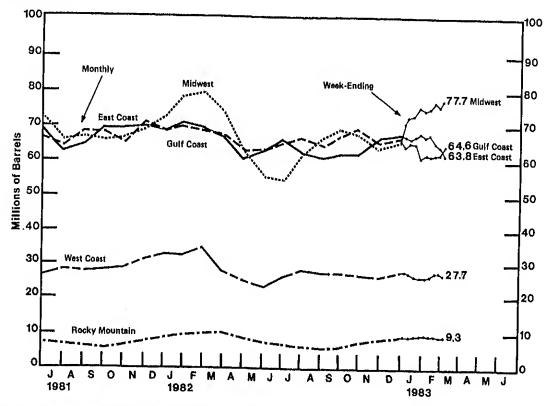
Monthly Data: 1981, EIA, "Petrolaum Supply Annual," 1982, EIA, "Petrolaum Supply Monthly," 

Week-Ending Stocks: Estimates based on EIA weekly data.

# Stocks of Motor Gasoline, U.S. Total (Millions of Barrels)



Stocks of Motor Gasoline by Petroleum Administration for Defense District (Millions of Barrels)



1 Average level and width of average range for total motor gesoline are based on three years of monthly data: July 1979—June 1982. The sessonal pattern is based on six years of monthly data: July 1976—December 1976 and January 1978—December 1981, See Appendix 8 for further explanation.

2 The National Petroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for motor gesoline to be 210 million barriers. See Appendix 8 for further explanation.

Source: e Ranges and Sessonal Patterns 1976—1980, EIA, "Petroleum Statement, Annual (Final Summary)," 1981, EIA, "Petroleum Supply Annual," e Monthly Data: 1981, EIA, "Petroleum Supply Annual," 1982, "Petroleum Supply Monthly."

e Week-Ending Stocks: Estimates based on EIA weekly data.

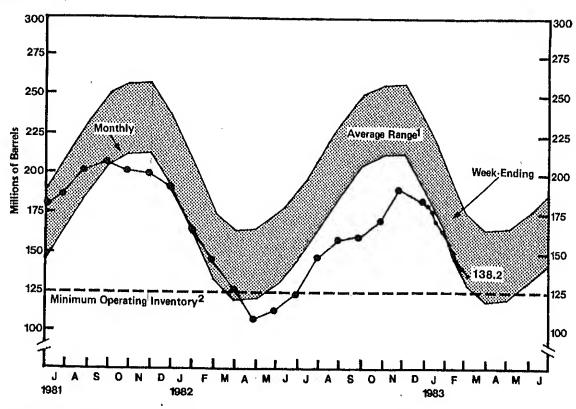
# Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District (Millions of Barrels)

Year/District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981										,		
Total U.S. <sup>1</sup>	179.4	172.5	164.3	164.6	171.8	179.9	186.3	200.2	207.3	201.2	200.1	191.5
East Coast (PAD 1)	71.9	69.8	64.7	64.4	68.2	73.8	81.3	86.3	92.0	94.8	96.0	87.4
Midwest (PAD 2)	57.7	56.1	52.5	52.4	50.5	48.7	49.8	54.1	54.3	51.0	51.6	50.0
Gulf Coast (PAD 3)	34.0	32.3	32.4	34.7	39.2	42,9	40.7	44.5	44.8	39.8	36.7	35.5
Rocky Mountain (PAD 4)	3.4	3.3	3.3	2.9	3.2	3.4	3.7	3.8	3.6	3,3	3.6	3.9
West Coast (PAD 5)	12.4	11.1	11.4	10.3	10.7	11.1	10.8	11.4	12.5	12.3	12.3	14.7
1982					•							
Total U.S.	166.0	146.7	127.7	108.8	114.5	124.5	148.1	158.9	161.2	170.2	185.6	178.6
East Coast (PAD 1)	69.2	58.4	44.9	35.1	39.2	44.2	57.4	63.9	68.0	75,7	88.7	80.6
Midwest (PAD 2)	47.4	43.8	40.2	31.2	31.2	34.1	42.6	45.5	45.5	44.3	45.3	47.0
Gulf Coast (PAD 3)	30.8	26.7	27.5	28.2	31.0	32.5	34.2	35.8	34.1	37.0	36.9	34.2
Rocky Mountain (PAD 4)		3.9	3.7	3.1	2.8	3.0	3.4	3.8	3.5	3.5	3.5	4.0
West Coast (PAD 5)	14.5	13.9	11.4	11.1	10.3	10.7	10.6	10.2	10.1	9.6	11.3	12.7
Week Ending:												
1983	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4			
Total U.S. <sup>1</sup>	177.8	175.1	170.7	162.9	157.9	150,8	146.1	142.5	138.2		<del></del>	
East Coast (PAD 1)	77.2	75.9	72.8	66.9	63.3	57.8	53.9	51.4	48.8			
Midwest (PAD 2)	50.5	50.0	49.7	49.6	48.5	47.9	47.2	47.5	47.5			
Gulf Coast (PAD 3)	33.6	32.7	31.8	30.6	30.4	30.1	29.9	28.3	27.0			
Rocky Mountain (PAD 4)	3.7	4.0	4.0	4.0	4.2	3.9	3.7	3.7	3.7			
West Coast (PAD 5)	12.7	12.4	12.5	11.8	11.5	11.2	11.3	11.8	11.3			

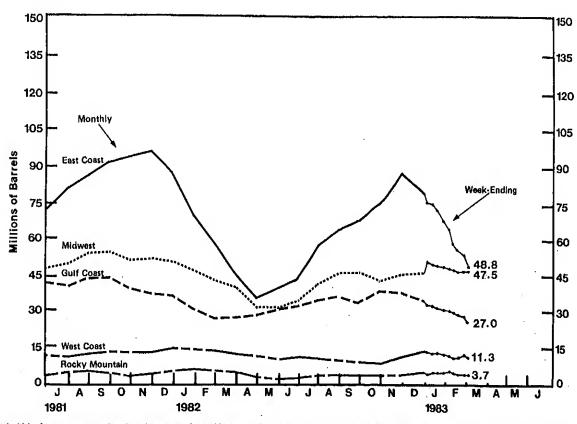
<sup>1</sup> PAD district data may not add to total due to independent rounding.

Source: • Monthly Data: 1981, EIA, "Petroleum Supply Annual," 1982, EIA, "Petroleum Supply Monthly."

• Week-Ending Stocks: Estimates based on EIA weekly data.



Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District (Millions of Barrels)



<sup>1</sup> Average level and width of average range are based on three years of monthly data: July 1979—June 1982. The seasonal pattern is based on seven years of monthly data: January 1975—December 1981. See Appendix B for further explanation,

2 The National Petroleum Council defines the Minimum Operating inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for distillate fuel oil to be 155 million barrels. See Appendix B for further explanation.

Source: e Ranges and Seasonal Patterns 1976—1980, EIA, "Petroleum Statement Annual (Final Summary)." 1981, EIA, "Petroleum Supply Annual."

e Monthly data: 1981, EIA, "Petroleum Supply Annual," 1982, EIA, "Petroleum Supply Monthly."

e Week-Ending Stocks: Estimates based on EIA weekly data.

Stocks of Residual Fuel Oil by Petroleum Administration for Defense District (Millions of Barrels)

Year/District	Jan	Feh	Mar	Apr	May	Jun	Jul	Aua	Sep	Oct	Nov	Dec
1981			······································								<del></del>	
Total U.S. <sup>1</sup>	82.1	77.9	74,8	72,9	78.1	69.4	69.3	74.9	80.2	79.9	01.4	70.0
East Coast (PAD 1)	39.0	38.5	37.3	36.3	38.2	33,6	33.0	34.4	40.0	40.4	81.4 43.0	78.0
Midwest (PAD 2)	9.2	9.0	7.9	7.3	7.1	7.0	7.7	8.1	8.5	8,0	8.2	40.1
Gulf Coast (PAD 3)	21.8	19.7	19.4	19.1	21,7	17,0	17.4	21,2	20.4	20.4	19.7	8.3 18.7
Rocky Mountain (PAD 4)	0.8	0.7	0.6	0.5	0.6	0.6	0.5	0.6	0.7			
West Coast (PAD 5)	11.4	10.1	9.7	9.7	10.5	11,2	10.7	10.7	10.7	0.7 10.4	0.7 9.8	0.7 10.2
1982												
Total U.S.	68.2	58.1	57.3	53.6	59.1	60.5	59.0	52.8	61.8	63.6	66 4	00.0
East Coast (PAD 1)	32,2	24.9	24.8	23,5	28.3	28.2	27.1				66.4	66.2
Midwest (PAD 2)	7.7	7.3	7.0	6.2	6.0	5.7	5.7	23.1	29.0	32.8	36.4	34.7
Gulf Coast (PAD 3)	17.4	14.4	14.7	13.5	14.9	17.1		5.3	5.8	5.1	5.0	5.2
Rocky Mountain (PAD 4)	0.6	0.7	0.6	0.5	0.5		16.4	15.6	16.2	15.6	16.1	16.3
West Coast (PAD 5)	10,2	11.0	10.3	9.9	9.4	0.5 9.2	0.5	0.4	0.5	0.5	0.5	0.6
Trace Code (1712 C)	10,2	11.0	10.3	9.9	9.4	9.2	9.3	8.4	10.4	9.6	8.4	9,3
Week Ending												
1983	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4			
Total U.S. <sup>1</sup>	66.1	63.6	62,1	55.3	56.8	54.5	52.0	47.9	49.0			<del></del>
East Coast (PAD 1)	34.0	32,4	30.7	26.3	26.6	25.7	24.4	21.7	22.3			
Midwest (PAD 2)	5.7	5.9	6.0	5.3	5.2	4.8	4.8	4.7	4.5			
Gulf Coast (PAD 3)	16.8	15.9	15.4	14.5	16.1	15.0	14.3	13.0	13.4			
Rocky Mountain (PAD 4)	0.7	0.7	0.7	0.6	0.7	0.7	0,6	0.6				
West Coast (PAD 5)	8.8	8.7	9.5	8.6	8.2	8.5	7.8	8.0	0.6 8.3			
	0	017	0.0	0.0	0.2	0.0	7.0	0,0	0.3			

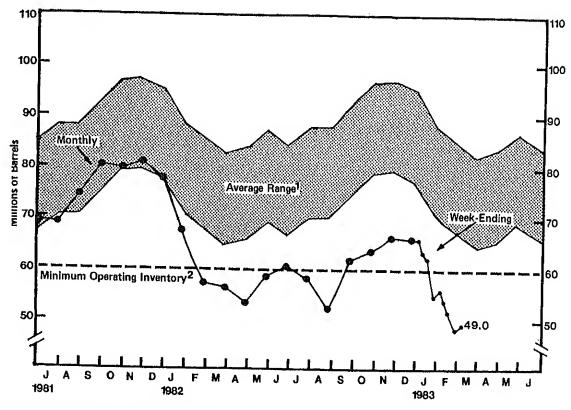
<sup>1</sup> PAÓ district data may not add to total due to Independent rounding.

Source: 

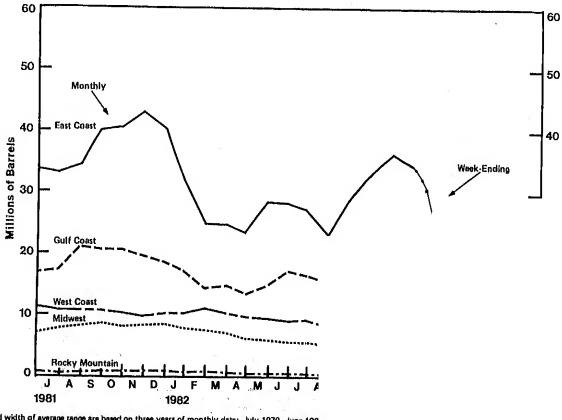
Monthly Data: 1981, EIA, "Petroleum Supply Annual," 1982, EIA, "Petroleum Supply Monthly."

Week-Ending Stocks: Fetimates based on FIA weekly data.

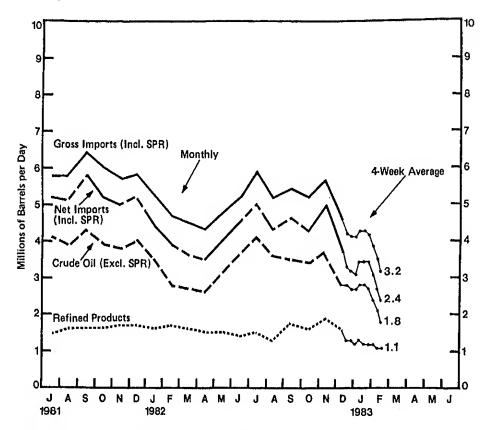
# tocks of Residual Fuel Oil, U.S. Total Aillions of Barrels)



ocks of Residual Fuel Oil by Petroleum Administration for Defense District lillions of Barrels)



## Imports of Crude Oil and Petroleum Products (Millions of Barrels per Day)



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981				-								
Crude Oil (Excl. SPR)	4.8	4.8	4.4	4.1	3.9	3.7	4.1	3.9	4.3	3.9	3.8	4.0
SPR	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.3	0.4	0.5	0.3	0.2
Refined Products	1.9	1.9	1.5	1.3	1.5	1.4	1,5	1.6	1.6	1.6		
Gross Imports (Incl. SPR)	6.8	6.8	6.0	5.7	5.8	5.4	5.8	5.8			1.7	1.7
Total Exports	0.6	0.6	0.6	0.6	0.6		0.6		6.4	6,0	5.7	5.8
Net Imports (Incl. SPR)	6.3	6.2	5,4	5.1	5.2	0.4 5.0	5.2	0.6 5.1	0.5 5.8	0.7 5,2	0.7 5.0	0.7 5.2
	• • •		٥,.		0.2	0.0	V.L.	0.1	0,0	0,2	0.0	0.2
1982												
Crude Oil (Excl. SPR)	3.5	2.8	2.7	2.6	3.1	3.7	4.1	3,6	3.5	3.4	3.7	2.8
SPR	0.2	0,2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	
Refined Products	1.6	1.7	1.6	1.5	1.5	1.4	1.5	1,3	1.8	1.6		0.1
Gross imports (Incl. SPR)	5.2	4.7	4.5	4.3	4.8	5.2	5.8	5.2	5.4	5.2	1.9	1.6
Total Exports <sup>1</sup>	0.8	8,0	0.9	0.8	0.8	0.7	0.7	0.9	0.8		5.7	4.6
Nat Imports (Incl. SPR)	4.4	3.9	3.6	3.5	4.0	4.5	5,0	4.3	4.6	0.9 4.3	0.8 4.7	0.9 3.7
Average for Four-Week Peri	od Endin											٠
1983	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4			
Crude Oil (Excl. SPR)	2.8	2.7	2.7	2.8	2.8	2.7	2.4	2.1	4.0			
SPR	0.1	0.1	0.1	0.2	0.2	0.2	0.3	2.1	1.8			
Refined Products	1.3	1.3	1.2	1.3	1.2	1.2		0.3	0.2			
Gross Imports (Incl. SPR)	4.2	4.1	4.1	4.3	4.3	4.2	1.2	1,1	1.1			
Total Exports <sup>1</sup>	E0.9	E0.9	E0.9	E0.9	E0.9		3.9	3.5	3.2			
Vet Imports (Incl. SPR)	3.3	3.2	3.1			E0.8	E0.8	E0.8	E0.8			
	5.0	٥,٧	0.1	3.4	3.4	3.4	3.1	2.7	2.4	:		

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E=Ertimate based on most recent monthly data available.

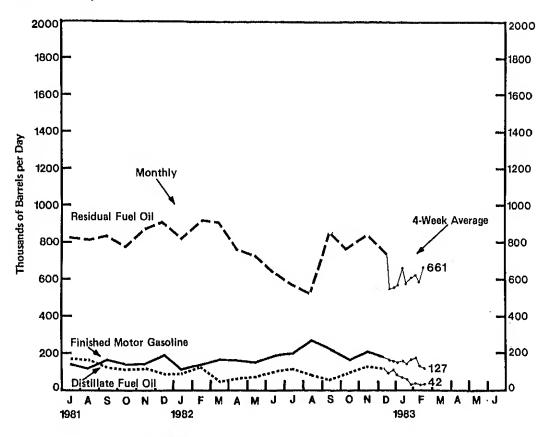
1 Includes exports of crude oil and refined patroleum products. Exports of crude oil are prohibited under normal circumstances. Some crude oil is shipped to Canada in exchange on a barrel-for-barrel basis. Shipments of crude oil to Puerto Rico and the Virgin Islands are not prohibited because these territories are U.S. possessions.

Source: a Monthly Data: 1881, EIA, "Patroleum Supply Annuel," 1982, EIA, "Petroleum Supply Monthly."

a Four-Week Averages: Estimates based on EIA weekly data.

Nota: Detail data may not add to total due to Independent rounding.

# Imports of Petroleum Products by Product (Thousands of Barrels per Day)



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NI
1981										<del></del>	
Finished Motor Gasoline <sup>1</sup>	138	111	171	186	150	186	151	124	169		
Jet Fuel	15	38	76	55	47	68	35	47	46		
Distillate Fuel Oil	273	325	147	116	179	225	179	174	129	1	
Residual Fuel Oil	1,015	954	699	584	741	540	830	819	841	7	
Other <sup>2</sup>	453	471	414	389	371	356	327	424	438	51	
1982											
Finished Motor Gasoline <sup>1</sup>	114	133	183	177	163	195	200	284	215	177	
Jet Fuel	10	62	39	47	31	3	15	26	30	20	
Distillate Fuel Oil	96	130	48	59	74	100	124	79	59		
Residual Fuel Oil	821	928	910	762	738	643	576	519	871		
Other <sup>2</sup>	544	489	425	428	464	504	578	428	580		
Average for Four-Week Per	riod Endir	na:									
1983	1/7	1/14	1/21	1/28	2/4	2/11	4110	<b>41 40</b>	3/4		
Finished Motor Gasoline <sup>1</sup>	158	154	152	157	145	159	163	137	127	+	
Jet Fuel	17	17	26	35	44	43	27	18	4		
Distillate Fuel Oil	94	106	88	66	56	38	43	38	42		
Residual Fuel Oil	553	563	572	660	573	603	622	594	661		
Other <sup>2</sup>	483	430	401	399	401	394	389	360	313		

<sup>1</sup> Motor gasoline imports are only finished gasoline imports. The 1981 and 1982 monthly values for motor gasoline imports have been adjusted to exclude motor gasoline blending components. Blending component imports are included in other imports.

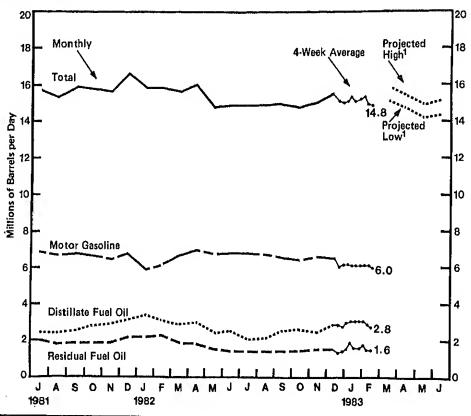
2 Includes imports of kerosene, unfinished oils, motor gasoline blending components, liquefied petroleum gases and other oils, Source:

• Monthly Data: 1981, EIA, "Petroleum Supply Annual," 1982, EIA, "Petroleum Supply Monthly."

• Four-Week Averages; Estimates based on EIA weekly date.

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# **Petroleum Products Supplied** (Millions of Barrels per Day)



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981												
Motor Gasoline	6.4	6.3	6.3	6.6	6.6	7.0	6,8	6.6	6.7	6,6	0.4	
Jet Fuel	1.1	1.0	1.1	1.0	0.9	1.0	1.1	1.0			6.4	6.7
Distillate Fuel Oil <sup>2</sup>	4.1	3.4	2,9	2,5	2.4	2.4	2.4	2.4	1.0	0.9	1.0	1.0
Residual Fuel Oil <sup>2</sup>	2.9	2.5	2,1	1.9	1.8	2,0	2.4		2.5	2.8	2,9	3.2
Other3	3,9	3.8	3.5	3.4	3,7	3.7		1.8	1,9	1.9	1.9	2.3
Total	18.4	17.0	15.9	15.4	15.4		3.4	3.5	3.8	3.6	3.4	3,4
		1710	10.0	10,4	10.4	16.1	15.7	15.3	15.9	15.8	15.6	16.6
1982												
Motor Gasoline	5.9	6.1	6.6	6.9	6,7	6.8	6.8	6.7	6.5	6.4	C C	0.5
Jet Fuel	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0		6.6	6.5
Distillate Fuel Oil <sup>2</sup>	3.4	3,2	2.9	3.0	2.4	2.5	2.1	2.2		1.0	1.0	1.1
Residual Fuel Oil <sup>2</sup>	2.2	2,3	1.9	1.9	1.6	1.5	1.5	1.5	2.5	2.6	2.5	2.9
Other <sup>3</sup>	3.4	3.2	3.2	3.2	3.1	3.1	3.4	3.4	1.5	1.5	1.6	1.6
Total ·	15.9	15.9	15.6	16.0	14.8	14.9	14.8	14.8	3.4	3.4	3.4	3.5
			, 0.0	10,0	71.0	17.5	14.0	14,0	14.9	14.8	15.0	15.5
Average for Four-We	ek Period	d Endina:										
1983	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4			
Motor Gasoline	6.0	6.2	6.2	6.1	6.1	6.1	6.1	6.1	6.0		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
let Fuel	1.0	1.1	1.1	1.0	1,0	1.1			6.0			
Distillate Fuel Oil <sup>2</sup>	2.9	2.8	3.0	3.1	3.1		1.0	1.0	1.0			
Residual Fuel Oil <sup>2</sup>	1.4	1.5	1.6	1.9	1.7	3,1	3.1	2.9	2.8			
Other <sup>3</sup>	3.7	3.5	3.3	3.2		1.7	1.8	1.6	1.6			
l'otal	15.1	15.0	15.1	3.2 15.3	3.2	3.2	3.3	3,3	3.3			
<u> </u>	7011	15.0	10.1	15.3	15.1	15.2	15.3	14.9	14.8			

<sup>1</sup> Projected. See Appendix C for explanation of derivation of values.
2 Beginning in 1983, crude oil burned as residual fuel oil or distillate fuel oil is no longer reported to EIA and therefore is not included in 1983 product supplied calculations for these fuels.
The product supplied series for distillate and residual fuel oil for 1981 and 1982 shown on this page are the values published in 1981 and 1982 EIA publications and include crude oil of thousand barrels per day for distillate fuel oil). See Appendix D for further explanation.
3 Other products supplied includes kerosone as well as products previously included.
Source: e Monthly Date: 1981, EIA, "Petroleum Supply Annual," 1982, EIA, "Petroleum Supply Monthly."

e Four-Week Averages: Estimates based on EIA weekly date,
Projections: EIA, Office of Energy Markets and End Use (November 1982).

# Average Retail Selling Prices Motor Gasoline and Residential Heating Oil (Cents per Gallon, Including Taxes)

Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981		· <del>- · · · · ·</del>		**			•					
Motor Gasoline												
Leaded Premium	133.8	141.0	144.9	145.1	144.7	144.6	144.6	144.4	145.6	145.7	146.2	146.0
Leaded Regular	123.8	132,1	135.2	134.4	133.3	132.4	131.5	131.0	130.5	129.9	129.7	129.3
Unleaded Regular	129.8	138.2	141.7	141.2	140.0	139.1	138.2	137.6	137.6	137.1	136.9	136.5
All-types	126.9	135.3	138.8	138.1	137.0	136.2	135.3	134.8	135.8	135.3	135.1	134.8
Residential Heating Oil	114.4	123.4	125.5	123.9	122.7	120.9	121.0	119.4	119.7	118.8	120.8	122.0
1982												
Motor Gasoline												
Leaded Premium	145.6	143.8	140.7	136.8	137.9	140.8	145.0	145.8	144.1	141.3	141.2	137.2
Leaded Regular	128.5	126.0	120.6	114.8	116.6	124.2	126.3	125,4	123.6	121.9	120.7	118.1
Unleaded Regular	135.8	133.4	128.4	122.5	123.7	130.9	133.1	132.3	130.8	129.5	128.3	126.0
All-types	134.1	131.8	126.8	121.0	122.4	129.6	131.8	131.0	129.5	128.0	126.8	124,4
Residential Heating Oil	122.0	120.7	115.3	113.2	114.3	116.2	115.8	115.9	115.2	119.6	121.6	P119.7
1983												
Motor Gasoline												
Leaded Premium	135.3											
Leaded Regular	114.6											
Unleaded Regular	122.8											
All-Types	121.3											
Residential Heating Oil												

Perfeiminary.

Note: Motor gasoline data include prices from self-service stations. Beginning with September 1981, the Bureau of Labor Statistics has changed the weights used in the calculation of average motor pasoline prices. In the "all types" category gasohol is now included, and unleaded premium is weighted more heavily.

Source: 

Motor Gasoline—Bureau of Labor Statistics. See definitions for descriptions of survey.

Residential Heating Oil—Form EIA—9A, "No. 2 Distillate Price Monitoring Report."

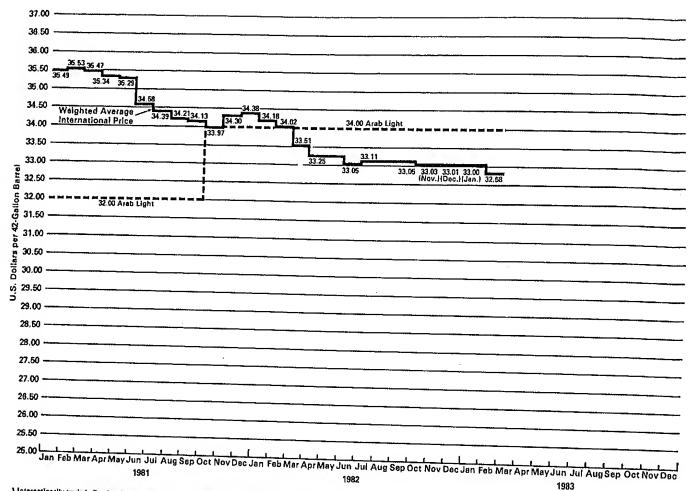
# Refiner Acquisition Cost of Crude Oil (Dollars per Barrel)

Year/Type	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
1981												
Domestic	32.71	36.27	36.97	35.58	35.21	34.20	33.76	33.79	33.47	33,48	33,49	33.51
mported	38.85	39.00	38.31	38.41	37.84	37.03	36.58	35.82	35.44	35.43	36.21	35.95
Composite	34.86	37.28	37.48	36.58	36.11	35.03	34.70	34.46	34.11	34.07	34.33	34.33
1982												
Domestic	33.39	32.71	31.08	30.27	30.37	30.79	30.92	30.85	30.76	31.38	31,57	P30.74
Imported	35.54	35.48	34.07	32.82	32.78	33.79	33.44	32,95	33.03	33,28	33.09	P32.86
Composite	33.95	33.40	31.81	30.83	31.02	31.74	31.74	31.45	31.40	31.98	32.07	P31.25

PaPreliminary, Source: e Form EIA-14, "Refiners Monthly Cost Report."

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# World Crude Oil Prices<sup>1</sup> (Dollars per Barrel)



1 Internationally traded oil only. Average price (FOB) weighted by estimated export volume.

Note: Beginning with the May 1, 1981 issue of the Weekly Petroleum Status Report, the world crude oil price is based on a revised crude list.

Additions: Seudi Arabia's Arabian Heavy, Dubal's Fatch, Egypt's Suez Blend, and Mexico's Maye. Omissions: Canadian Heavy. Replacements: Iraq's Kirkuk Blend for Iraq's Basrah Light.

The above graph shows an estimated world crude oil price based on this revised list beginning January 1, 1981.

14.0

## World Crude Oil Prices<sup>1</sup> (Dollars per Barrel)

	Type of Crude/						Percent Change Current Price From		
Country	API Gravity	Current Price	in Effect 1 Jan 82	In Effect 1 Jan 81	in Effect 1 Jan 80	In Effect 31 Dec 78	In Effect 1 Jan 80	In Effect 31 Dec 78	
OPEC									
Saudi Arabia	Arabian Light 34 <sup>0</sup> (Bench mark orude)	34.00	34.00	32.00	26.00	12.70	30.8	167.7	
	Saudi Berri 390	34,52	35.40	33.52	27.52	12.00			
	Arabian Heavy 27 <sup>0</sup>	31.00	31.00	31,00	25.00	13,23	25.4	160.9	
Abu Dhebi	Murban 39 <sup>0</sup>	34.56	35.50	36,56	29.56	12.02	24.0	157.9	
Dubal	Fateh 320	33.86	33.86	35.93		13.26	16.9	160.6	
Onter	Dukhan 40 <sup>0</sup>	34.49	35.45	35.83 37.42	27.93	12.64	21.2	167,9	
itan	Iranian Light 34 <sup>0</sup>	31.20	34.20	37.00	2 <mark>29.42</mark> 230.00	13.19	17.2	161.5	
iraq	Kirkuk 36 <sup>0</sup>	34.83	34.93	37.50 37.50	30,00	13.45	4.0	132.0	
Kuwait	Kuwait Bland 310	32.30	32.30	37.50 35,50	29,29	13.17	18.9	164,5	
Neutral Zone	Khafji 28 <sup>0</sup>	31,03	31.03	35,50 35,20	27.50	12.22	17.5	164.3	
Algeria	Saharan 44 <sup>0</sup>	35.50	37.00	40.00	27.20	12.03	14.1	157.9	
Nigeria	Bonny Light 370	30,00	36.50	40.00	33,00	14.10	7.6	15 <b>1</b> .8	
Libya	Es Sider 37 <sup>0</sup>	35,15	36,50	40.78	29.97	15.12	0.1	98.4	
Indonesia	Minas 340	34.53	35.00		34.50	13.68	1.9	156,9	
Venezuela	Tia Juana 260	32.88	32,88	35.00	27,50	13.65	25.6	154.8	
Gabon	Mendji 30°	34.00	34.00	32.88	25.20	12.72	30.5	158.6	
Ecuador	Oriente 30 <sup>0</sup>	32.50		35.00	28.00	12.59	21.4	170.1	
2	•	DE.00	34.26	40.06	33,50	12.35	-3.0	163,2	
Total OPEC <sup>3</sup>	NA	33,10	34.13	24.00	00.00				
		05,10	34.13	34.82	28.30	13.03	17.0	154.0	
Non-OPEC									
United Kingdom	Forties 36°	33.50	36,50	39,25	20.25	4440			
Norway	Ekofisk 42 <sup>0</sup>	34.25	37.25	40.00	29,75	14.00	12.6	139,3	
Mexico	Mexican Light 33 <sup>0</sup>	32,50	35.00	38.50	32.50	14.20	5.4	141,2	
	Mexican Heavy 220	25.00	26.50	34.50	32.00 28.00	13.10	1.6	148.1	
Egypt	Suez Blend 33 <sup>b</sup>	<sup>4</sup> 29.00	34.00	40.50	28,00 34,00	NA	-10.7	NA	
Ontan	Oman 34 <sup>0</sup>	34,00	35,00	37.50		12.81	·14.7	126.4	
Syria	Suwadiyah 250	30.00	30,00	36.03	30.26	13.06	12.4	160.3	
Malaysia	Mirl 38 <sup>0</sup>	35.60	36.50	41.30	31,39	11.64	-4.4	157.7	
Brunei U.S.S.R. <sup>5</sup>	Seria 36 <sup>0</sup>	35.10	36.10	40,35	33.60	14.30	6.0	149.0	
u.s.s.r.	Export Blend 33 <sup>0</sup>	29,36	35.49	39,25	33.40	14.15	5.1	148.1	
Total Non-OPEC 3	NA				33.20	13,20	-11.6	122,3	
	NA	31.35	34.35	38,54	31.94	13.44	-1,8	12,3	
Yotal World 3	NA	32.58	34.18	36,49	28.84	13.08	13.0	140.4	
United States 6	NA	31.73	34,15	36.69	29,35	13,38	8.1	149.1 137.1	

NA=Not Applicable.

1 Official sales prices or estimated term contract prices; spot prices excluded.

2 37c higher at 60 days' credit.

3 Average prices (FOB) weighted by estimated export volume.

4 On 60 days' credit.

5 Average delivered cost to Northwest Europe.

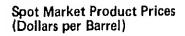
6 Average prices (FOB) weighted by estimated import volume.

5ource: e DOE, Office of international Affairs, March 9, 1983.

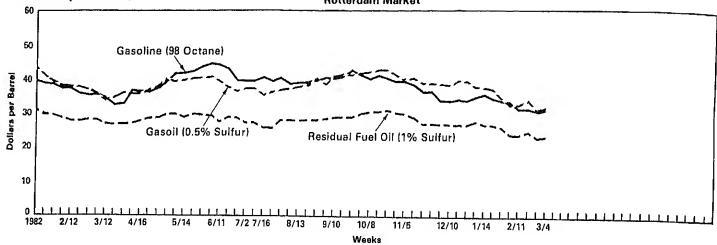
e Platt's Offices of international Affairs, encounter 9 Petroleum Intelligence Weekly.

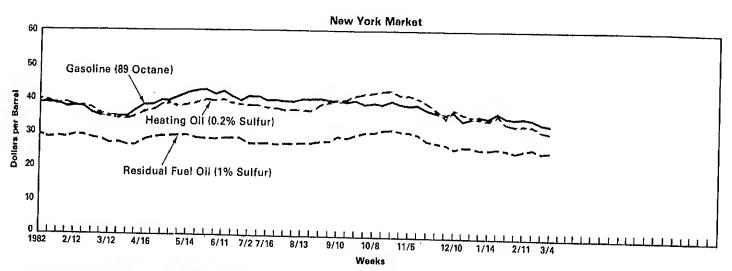
e Oil Buyers' Guide.

e Europe Oil Prices









Source: • Oil Buyers' Guide, Weekly Oil Market Product Report.
• DOE, Office of International Affairs.

			Motor	Gasoline	Gasoil/H	eating Oil <sup>1</sup>	Residua	l Fuel Oil <sup>2</sup>
			Rotterdam (98 Octane)	N.Y. <sup>3</sup> (89 Octane)	Rotterdam (0.5% Sulfur)	N.Y. <sup>4</sup> (0.2% Sulfur)	Rotterdam (1% Sulfur)	N.Y. <sup>3</sup> (1% Sulfur)
198	2 Mar		35.46	34.88	35.32	35.28	22.22	
		12	34.41	34.57	34.38	33.60	28.08	28.00
		19	32.42	34.55	34.99		26.95	27.00
		26	32.83	34.52	36.13	34.02 34.06	26.50	27.00
	Apr		36.64	36.54	35.52	34.54	26.65	26.25
		9	36.17	38.01	35.72		26.80	26.25
		16	36.64	38.22	36.66	36.12	27.78	27.70
		23	37.51	39.69	37.87	36.54	28.53	28.50
		30	39.57	39.40	39.68	38.22	28.75	28.75
	May		41.68	40.53	38.81	38.32	29,43	29.00
	-	12	41.85	41.87		37.80	29.80	29.25
		19	42.67	42.29	39.21	38.32	29.73	29.50
		26	43.79	42.61	40.21	38.85	29.73	28.75
	Jun		44.37	41.68	40.35	39.69	29.43	28.35
		11	44.08	42.21	40.55	39.48	29.05	28.35
		18	43.08	40.66	39.34	39.90	27.40	28.40
		25	39.57	39.56	37.60	38.64	28.60	28.50
	Jul	2	39.86		36.53	38.33	28.45	28.25
		9	39.86	40.07	37.27	38.01	27.10	27.00
		16	40.04	40.07	37.27	38.01	27.10	27.00
		23	39.57	39.73	35.32	37,59	25.90	27.00
		30	40.12	39.84	36.13	37.38	25,53	26.80
	Aug		38.80	39.59	36.98	36.96	27.78	27.00
	···	13		39.59	37.33	37.06	28.00	27.00
		20	38.45	40.00	37.60	37.80	27.85	27.00
		27	39.15	40.00	38.70	37.80	27.85	27.25
	Sep	3	39.86	40.05	40.28	38.32	27.85	27.75
	оср	10	40.56	39.84	38.46	39,48	28,38	28.00
		17	40.39	39.69	41.02	39.58	28.68	29.25
		24	41.03	39.38	41.22	39.90	28.75	28.75
	Oct	1	42.61	39.38	41.22	41.26	28.90	29.60
	OUL	8	41.03	38.54	41.96	41.58	29.88	30.25
		15	40.15	38.96	42.29	42.00	30.33	30.35
		22	41.03	38.74	42.96	42.42	30.48	31,00
		22 29	40.04	39.69	42.76	42.74	30.78	24.25
	Nov	29 5	39.39	38.96	41.42	41.37	30.26	
	1404	12	39.80	38.45	39.88	41.37	90 00	
		19	38.22	38.56	40.28	ላሀ उኃ		
			36.11	37.02	38.81			
	Dag	26 3	36.28	36.33	38.87			
	Dec		33.65	35.76	38.67			
		10	33.88	36.50	38.20			
		17 24	34.00 33.70	35.13 34.92	39.75 39.28			
1983	Jan	7	34.88	35.13	37.73			
		14	35.46	34.82				
		21	34.29	36.29	37.47 37.00			
		28	33.88	35.03	37.00 34.45			
	Feb	4	33.70	34.57	34.45			
		11	31.48	24.07	32.37			
		18	31.48	34.92	32.37			
		25	30.72	34.82	33.98			
	Mar	-4	31.01	33.24	30.63			
	···ai	. 7		32.99	31.70			
				₩.	: Mr			
			\$ e *	\$ \$4.1	U"2 x			

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<sup>1</sup> Refers to No. 2 Heating Olivers 2
Refers to No. 6 Oil.
3 East Coast Cargoes.
4 New York Herbor Reseller Barge Prices.
Source: • Oil Buyers' Guide, Weekly Oil Market Product Report.
• DOE, Office of International Affairs.

# Weather Summary (Population Weighted Heating Degree-Days 1)

The weather for the nation, as measured by population-weighted heating degree-days from July 1, 1982 through March 6, 1983, has been 11.4 percent warmer than normal and 15.8 percent warmer than last year.

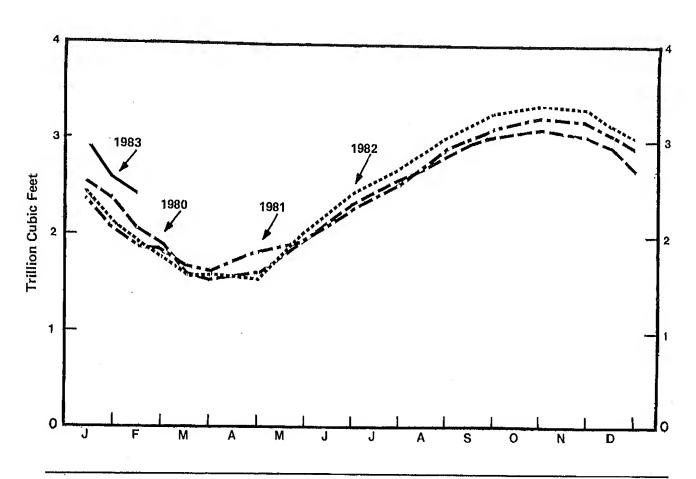
Heating Degree-Days, U. S. Total (Population Weighted) and By City

				Percent	Change	
·	1982–1983 This year	1981—1982 Last year	Normal	This year vs. Last year	This year vs. Normal	
U.S. Total						
July 1 - June 30		4,967	4,695	_		
July 1 - March 6	3,079	3,656	3,476	-15.8	-11.4	
Otties						
Albuquerque	3,659	3,285	3,490	11	Б	
Amarillo	3,582	3,265		'7	7	
Asheville	3,181		3,352	-11	-6	
Atlanta		3,562	3,388	-11 -12	.9	
Billings	2,345	2,676	2,586			
Boise	4,495	5,419	5,396	-17	-17	
Boston	4,168	4,547	4,420	-8 17	-6	
Buffalo	3,816	4,584	4,235	-17	-10	
	4,392	5,420	5,146	-19	-15	
Cheyenne	5,047	4,974	5,211	1	-3	
Chicago	4,319	5,681	5,027	-24	-14	
Cincinnati	3,407	4,578	4,027	-26	-15	
Cleveland	3,764	5,085	4,680	-26	-20	
Columbia, SC	2,270	2,408	2,233	-6	2	
Denver	4,520	4,004	4,474	13	1	
Des Moines	4,372	5,484	5,287	-20	-17	
Detroit	4,288	5,536	4,912	-23	-13	
Fargo	6,366	7,628	7,180	-17	-11	
Hartford	4,347	4,928	4,874	-17	-11	
Houston	1,354	1,304	1,271	4	7	
Jacksonville	1,205	1,070	1,175	13	3	
Kansas City	3,906	4,708	4,298	-17	<b>.</b> 9	
Las Vegas	2,122	1,815	2,218	17	-4	
Los Angeles	829	828	1,224	0	-32	
Memphis	2,319	2,893	2,727	-20	-15	
Miami -	104	150	197	-31	-47	
Milwaukee	4,650	6,152	5,586	-24	-1 <del>7</del>	
Minneapolis	5,412	6,617	6,345	-18	-15	
Montgomery	1,654	1,953	1,960	-15	-16	
New York	3,410	4,043	3,780	·16	-10	
Oklahoma City	2,797	3,263	3,071	-14	-9	
Omaha	4,544	5,643	4,821	-19	-6	
Philadelphia	3,480	4,204	3,823	-17	-9	
Phoenix	912	757	1,354	20	-33	
Pittsburgh	3,944	5,069	4,616	-22	-15	
Portland, ME	5,031	5,649	5,540	-11	-18 -9	
Providence	3,903	4,796	4,468	-19		
Raleigh	2,703	3,026	2,904	-11	-13	
Richmond	2,832	3,400	3,214	-17	-7	
Salem, OR	3,208	3,509	3,480	-17	-12	
Salt Lake City	4,234	4,089			-8	
San Francisco	2,078	2,120	4,567	4	-7	
Seattle	3,247	3,458	2,127	-2	·2	
Shreveport	1,984	2,154	3,700	-6	-12	
St. Louis	3,380	2,154 4,369	1,879	-8	6	
Washington, D.C.	2,846		3,841	-23	-12	
The state of the s	2,040	3,476	3,402	<sub>*</sub> 18	-16	

<sup>1</sup> Heating degree-days for a given location on a given day are the number of degrees that the meen temperature (average of daily maximum and minimum temperatures) that day is below 65°F. Heating degree-days give a rough messure of the demand for heating oil.

Source: • National Oceanic and Atmospheric Administration, Department of Commerce.

• U.S. Census Bursau, 1981 Population Estimates.



		Worki	ng Gas1		
	1980	1981	1982	1983	
January 15	2.566	2.368	2,492	2.910	
January 31	2.324	2.152	2.181	2.651	
February 15	2.034	1.853	1.900	P2.433	
February 28	1.852	1.824	1.786		
March 15	1.661	1.699	1.661		
March 31	1.594	1.631	1,603		
April 30	1.691	1.764	1.675		
May 31	1.998	1.977	2.033		
June 30	2.299	2.252	2.368	•	
July 31	2.587	2.556	2.706	*	
August 31	2.854	2.882	3.001		
September 30	3.099	3.152	3.251		
October 31	3.187	3.247	3.362		
November 30	3.026	3.200	3.309	•	
December 15	2.882	3.048	3.197		
December 31	2.655	2.815	3.072		

P=Preliminary.

1 Working Gas: Gas evallable for withdrawal.

Source: • FEA System; EIA 191, "Underground Gas Storage Report," 

### Appendix A: EIA Weekly Data: Survey Design and Estimation Methods

The Weekly Petroleum Reporting System (WPSR) comprises five surveys: the "Weekly Refinery Report" (EIA-800); the "Weekly Bulk Terminal Report" (EIA-801); the "Weekly Product Pipeline Report" (EIA-802); the "Weekly Crude Oil Stocks Report" (EIA-803); and the "Weekly imports Report" (EIA-804). The EIA weekly reporting system, as part of the Petroleum Supply Reporting System, was designed to collect data similar to those collected monthly. In the WPRS, selected petroleum companies report weekly data to EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On the Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. Current weekly data and the most recent monthly data are used to estimate the published weekly totals.

#### Sample Frame

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly. All sampled companies report data only for facilities in the 50 States and District of Columbia. The EIA-800 sample frame includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and bulk terminals that blend motor gesoline. The EIA-801 sample frame includes all bulk terminal facilities in the United States and its territories that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The EIA-802 sample frame includes all petroleum product pipeline companies that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that only transport natural ges liquids are not included in the EIA-802 frame. Only those pipeline companies which transport products covered in the weekly survey are included. The EIA-803 sample frame consists of all trunk pipeline companies in the United States and its territories which transport crude oil, all crude oil producers, all terminal operators, and all storers of 1,000 barrels or more of crude oil. The EIA-804 sample frame includes all importers of record of crude oil and petroleum products into the United States.

#### Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for the previous time period.

	Refiners (Refineries)	Buik Terminais	Pipelines	Crude Oil Stock Holders	importers	
Weskly Form	EIA-800	E1A-801	EIA-802	EIA-803	EIA-804	
Monthly Frame Size	186(347)	173	65	296	955	
Weskly Sample Size	84(215)	93	65	111	61	

#### **Collection Methods**

Data are collected by mail, maligram, telephone, Telex, and Telefax on a weekly basis. All canvassed firms and terminal operating companies must file by 5:00 p.m. on the Monday following the close of the report period, 7 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered.

### Estimation and Imputation

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data. First, the current weak's data for a given product reported by companies in that region are summed. (Call this weekly sum,  $W_s$ ). Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum,  $M_s$ ). Finally, let  $M_t$  be the sum of the most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies,  $W_t$ , is given by :

$$W_t = \frac{M_t}{M_s} \cdot W_s$$

This procedure is used directly to estimate total weekly inputs to refinerles and production. To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a company-by-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

# Response Rates

The response rate as of the day after the filing deadline is about 80 percent for the EIA-800; 75 percent for the EIA-801; 95 percent for the EIA-802; 80 percent for the EIA-803; and greater than 95 percent for the EIA-804. However, more forms are received the next day, bringing the final response rates up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published estimates is usually between 2 percent and 5 percent.

# Appendix B: 'Interpretation and Derivation of Average Inventory Levels

The national inventory (stocks) graphs for total petroleum products, crude oil, motor gasoline, distillate fuel oil, and residual fuel oil in this publication include features to assist in comparing current inventory levels with past inventory levels and with judgments of critical levels. Methods used in developing the average inventory levels and minimum operating levels are described below.

#### Average Inventory Levels

The charts dispiaying inventory levels of total petroleum products (p. 7), crude oil (p. 7), motor gasoline (p. 9) distillate fuel oil (p. 11), and residual fuel oil (p. 13) provide the reader with actual inventory data compared to an "average range" from the most recent 3-year period running from January through December or from July through June. The ranges are updated every six months in March and October. The 3-year period is adjusted by dropping the oidest 6 months and including the most recent 6 months. The ranges also reflect seasonal variation determined from a longer time period. The seasonal factors, which determine the shape of the upper and lower curves, are updated annually in October, using the most recent year's final monthly data.

The monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported inventory levels). The intent of deseasonalization is to remove only annual variation from the data. Thus, deseasonalized series would contain the same trends, cyclical components, and irregularities as the original data. The seasonal factors for total petroleum (crude and products), crude oil, distillate fuel oil, and residual fuel oil were derived using monthly data from 1975-1981. For motor gasoline, the seasonal factors were based on monthly data from 1975-1976 and 1978-1981. In 1977, monthly stock levels of motor gasoline stayed at the same high level for the entire year. Since there was virtually no seasonal behavior in motor gasoline stocks that year, 1977 was not used in the determination of seasonal patterns for motor gasoline stocks.

After seasonal factors are derived, data from the most recent 3-year period (January-December or July-June) are deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard deviation of the deseasonalized 36-months is calculated adjusting for extreme data points. The upper curve of the "average range" is defined as the average plus the seasonal factors plus the standard deviation. The lower curve is defined as the average plus the seasonal factors minus the standard deviation. Thus, the width of the "average range" is twice the standard deviation. The values of the upper and lower curves are presented in the table below.

# Values of Average Ranges In Inventory Graphs (Millions of Barrels)

**************************************	Jan	Feb	Mar	Apr	May	Jun	Jui	Aug	Sep	Oct	Nov	Dec
						Lower F	lange					
Total Petroleum Crude OII Motor Gasoline Distillate Fuel OII Residual Fuel OII	1185.5 347.0 253.8 161.6 71.0	1143.1 345.5 260.1 132.0 67.9	1138.5 354.0 256.0 120.3 64.8	1149.3 358.2 245.1 121.5 66.1	1163.9 355.5 235.8 130.3 69.4	1175.9 354.4 230.9 145.0 66.7	1204.2 349.2 229.0 167.5 70.2	1219.5 344.4 227.6 187.7 70.3	1244.2 344.8 229.1 206.0 75.1	1250.6 352.7 221.1 212.5 79.1	1252,9 351,4 226,6 213,0 79,5	1209.4 341.8 237.1 191.1 77.6
						Upper R	lange					
Total Patroleum Crude Oll Motor Gasoline Distillate Fuel Oll Residual Fuel Oll	1301.2 377.8 279.7 205.5 88.6	1258.8 376.3 286.1 175.9 85,4	1254.2 384.8 282.0 164.2 82.4	1265.0 388.9 271.0 165.4 83.6	1279.6 386.2 261.8 174.2 86.9	1291.6 385.1 256.8 188.9 84.3	1319.9 379.9 255.0 211.4 87.8	1335,3 375,1 253,5 231,6 87,8	1359.9 375.5 255.0 249.9 92.6	1366.3 383.5 247.1 256.4 96.7	1368.6 382.2 252.6 256.9 97.0	1325.1 372.5 263.0 235.0 95.1

## Minimum Operating Levels

The lines labeled "minimum operating inventory" for crude oil, motor gasci' by the National Petroleum Council from a 1978 survey of petroleum refir The Council also surveyed industry experts. The findings were published I December 1979. In that document, minimum operating inventory is describ

inventory below this level is not available for consumer use be tank bottoms and refinery process equipment; facilitate blendir prepare for planned maintenance periods; handle unavoidable team uninterrupted operations. Runouts and shortages would be below this level.

The values were: crude oil -- 290 million barrels; motor gasoline -- 210 mi residual fuel oil -- 60 million barrels.

Since the National Petroleum Council did not derive a minimum operational labeled "observed minimum" is based on the lowest inventory level observed derivation of the average inventory levels. For crude oil, motor gasoil minimum and the minimum operating inventory are quite close. Hence, i proxy for the minimum operating inventory.

### Appendix C: Projection of Product Supplied from the November 1982 Short-Term Energy Outlook

The projections of "high" and "low" total petroleum demand, shown in the WPSR as total product supplied, are from the Office of Energy Markets and End Use, Short-Term Energy Outlook, (Outlook) November 1982.

Three forecast cases are presented in the <u>Outlook</u> based on differing assumptions about the world price of crude oil. in case 1, it is assumed that prices decrease to an effective OPEC marker crude price of \$28 per barrel by the end of 1982 and then remain level in 1983. In case 2, imported crude oil prices are stable at the October 1982 level of \$33.44 per barrel through 1983. In case 3, imported crude oil prices rise to \$33.77 per barrel in the fourth quarter of 1982, then rise at 3 times the U.S. inflation rate in 1983. Macroeconomic inputs are based on a forecast from Data Resources, inc. (DRI CONTROL 102682).

The "high demand" case is formed by adding the case 1 (low price) forecast of total demand to the square root of the sum of the squares of increases in demand resulting from the following changes in key variables: (1) a 5-percent increase in heating degree-days over the base case, (2) a 7-percent increase in cooling degree-days over the base case, (3) an increase in income over the base case that reflects average forecast errors over a 3-year period, (4) a 5.5-percent decrease in new car efficiency from the base case in 1982 and an 11.4-percent decrease from the base level in 1983, and (5) a preliminary data adjustment factor. The "low demand" case is formed by subtracting from the case 3 (high price) forecast the square root of the sum of the squared decreases in demand resulting from decreases from the base case for heating degree-days, cooling degree-days, and income; and a 9.1 percent increase from the base case new car efficiency in 1982 followed by a 17.1-percent increase from the base case in 1983.

For detailed information on the assumptions used in the forecast methodologies, please refer to the published report, Short-Term Energy Outlook, November 1982.

Copies of the report are available from:

National Energy Information Center Room 1F-048, Forrestal Building 1000 Independence Avenue, S.W. Washington, D.C. 20585 Telephone 202-252-8800

# Appendix D: Changes in 1983 Weekly Petroleum Status Report Series

Some data series presented in the 1983 issues of the Weekly Petroleum Status Report (WPSR) are different from 1982 WPSR data series. The differences, which are discussed below, are the result of changes made in the 1983 weekly data collection forms of the Petroleum Supply Reporting System to increase consistency between monthly and weekly published series and to reduce reporter burden. One change has been made in estimation methodology.

#### Changes from Data Forms

in 1983, weekly petroleum supply forms collect data for finished motor gasoline production, stocks, and imports. This change means that the components of 1983 WPSR motor gasoline product supplied estimates are definitionally the same as the components of the monthly product supplied estimates calculated from monthly data. In 1982, weekly forms combined imports of motor gasoline blending components with finished motor gasoline imports in a single category, total motor gasoline imports. In 1983 imports of motor gasoline include finished product only. In 1983, weekly forms include imports of motor gasoline blending components in other oils imports. In the 1983 WPSR publication, the monthly other oils series for 1981 and 1982 (see p. 15) includes imports of motor gasoline blending components. In the first ten months of 1982, imports of motor gasoline blending components averaged 37 thousand barrels a day and ranged between 19 and 50 thousand barrels per day.

Kerosene production and stocks reports are not collected on 1983 weekly forms. Consequently, in 1983, the weekly other oils stocks estimate (pgs. 3 and 6) includes kerosene. Other oils product supplied, which is calculated for the WPSR as the difference between total product supplied and the product supplied estimates of listed products, is larger in 1983 because it includes kerosene product supplied, which can no longer be calculated from weekly data (see p. 16). Kerosene stocks in the first 10 months of 1982 ranged between 8.8 and 10.2 million barrels. The values of kerosene product supplied, averaged 121 thousand barrels per day in the first 10 months of 1982.

#### Change in Methodology

In 1983, reports of crude oil used as fuel on leases are treated as reports of crude oil product supplied, a new product supplied category. Before 1983, crude oil used in this fashion was reported as a use of distillate fuel oil or residual fuel oil and was included in the respective product supplied calculations. Weekly estimates for product supplied made in 1983 do not include estimates for these quantities and are compared in the U.S. Petroleum Balance (p. 3) to recast 1982 data. The monthly series for 1981 and 1982 shown on p. 16 are the quantities originally calculated and published including crude oil used as fuel. In the first 10 months of 1982, the quantities of crude oil used directly in the distillate fuel oil product supplied and residuel fuel oil product supplied calculations averaged 11 thousand barrels per day and 50 thousand barrels per day, respectively.

### Appendix E: Calculation of World Oil Prices (page 19)

The weighted average international price of oil, shown in the "Highlights" and on page 19, is an average calculated using specific crude oil prices weighted by the estimated crude oil export volume for each oil-producing country. To develop the table shown on page 19, a list of major oil producing/exporting countries was chosen. For each country, the official selling price of one or more representative crude oils was determined by investigating a number of industry publications (I.e., "Oil Buyers' Guide," "Platt's Oilgram Price Report," "Petroleum Intelligence Weekly," and "Europe Oil Prices") and by contacting oil market analysts.

Then, the appropriate crude oil volumes to be used as weighting factors for each country were determined. These volumes are estimates based on a number of sources which provide data on production, consumption, and exports for these countries. Export volumes for a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors. After the export volumes had been determined, simple mathematical weighted averages were calculated to arrive at the "Total OPEC," "Total Non-OPEC," and "Total World" prices.

The average United States (FOB) import price is derived by the same basic procedure as the world oil price, that is, taking the representative official crude oil price of a specific crude oil from a particular country and weighting this price by a certain volume of crude oil. In this case, the weighting factors are the volumes of crude oil imported into the U.S. from pertinent countries, import volumes from a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors.

Both the import and export volumes are preliminary. Due to their origin, these estimates cannot be fully verified. These volumes are updated monthly, or more frequently when changes in oil market conditions make updating appropriate.

### Glossary

- Barrols, 42-gallon barrels,
- Crude Oli. A mixture of hydrocarbons that existed in iliquid phase in underground reservoirs and remains iliquid at atmospheric pressure after passing through surface separating facilities. Lease condensate and drips are included but topped crude oil (residual) and other unfinished oils are excluded.
- Crude Oil Inputs. The total crude oil put into processing units at refineries.
- Distillate Fuel Oils. Includes No. 1, No. 2, and No. 4 fuel oils, and No. 1, No. 2, and No. 4 diesel fuels. These are light fuel oils used primarily for home heating as a diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and for electric power generation.
- Gross Inputs. The crude oil, unfinished oils, and natural gas plant liquids put into distillation units.
- Imports. Unless otherwise specified in this report, refers to gross imports. Imports of minor products ("other clis") include a viation gasoline, kerosene, unfinished oils, liquefied petroleum gases, plant consentate, petrochemical feedstocks, lube oils, waxes, special naplities, coke, esphalt, blending components, and other miscellaneous oils.
- Jet Fuol. Includes kerosene-type jet fuel and naphthatype jet fuel. Kerosene-type jet fuel is a kerosene quality product used primarily for commercial turbojet and turboprop aircraft engines. Naphtha-type jet fuel is a fuel in the heavy naphthas range used primarily for military turbojet and turboprop aircraft engines.
- Motor Gasoline. Finished leaded gasoline, finished unleaded gasoline, and blending components in the gasoline range. Production and imports data represent finished leaded gasoline and finished unleaded gasoline. Stocks data consist of the two types of finished gasoline and blending components. Stock change used in the calculation of motor gasoline product supplied is the change in finished motor gesoline stocks. Imports of motor gasoline blending components are contained in other oils imports.
- Operable Capacity. The amount of crude oil distiliation capacity that, at the beginning of the month, is in operation; or is not in operation and not under active repair but capable of being placed in operation within 30 days; or is not in operation but under active repair that can be completed in 90 days.
- Product Supplied. A value calculated for specific products which is equal to domestic production plus not imports (imports less exports), less the not increase in primary stocks. Total products supplied is calculated as inputs to refineries, plus estimated refinery gains, plus other hydrocerbon input, plus product imports, less product exports, less the not increase in product stocks. Values shown for "Other Olis" product supplied are the difference between total product supplied and product supplied and product supplied incorporates crude oil product supplied and reclassified product adjustment.
- Refiner Acquisition Cost of Crude Oil. The average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1131, Imported crude oil is any crude oil which is not domestic oil. The composite is the weighted average price of domestic and imported crude oil. Prices do not include price of unfinished oils or SPR.

- Refinery Capacity Utilization. Ratio of the total amount of crude oil, unfinished oils, and natural gas plant liquids run through crude oil distillation units to the operable capacity of these units. In the period 1979-1982 the refinery capacity utilization for all U.S. refineries ranged between 87 percent and 65 percent. The ratio for an individual refinery may fluctuate much more depending on the type of crude and other raw materials processed, the type of products produced, and the operating conditions of the refinery.
- Residual Fuel Oils. Includes No. 5 and No. 6 fuel oils which are heavy oils used primerily for electric power generation, for industrial and commercial space heating, as a ship fuel, and for various industrial
- Retail Motor Gasoline Prices. Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). These prices are collected in 85 urben areas selected to represent ell urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchesing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, minl-, and self-service).
- Stocks. For individual products in WPSR, quantities held at refineries, in pipelines, and at bulk terminals with a capacity over 50 thousand barrels. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are axcluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but included in "Other Olis" estimates and "Total."
- Stock Change (Refined Products). Component of Product Supplied calculation shown on U. S. Petroleum Balance. The product stock change shown on the U.S. Petroleum Balance Sheet for the current 4-week period is calculated in the following way: an average daily stock change is calculated for major refined products (i.e., all actual reported stocks); this stock change is added to an estimate for minor product stock change based on historical monthly data; a daily average stock change for refined product stocks for the 4-week period is then calculated. To calculate minor product stock change, the stock levels shown for other oils in the stock section of the balance sheet are used. These other oils stock levels are derived by: 1) computing an average daily rate of stock change for each month based on monthly data for the past six years; 2) using this daily rate and the minor stock level from the most recent monthly publi-